



# PREVENT STORM WATER CONTAMINATION

## *Best Management Practices for*

### Section U-Food & Kindred Products Facilities

### Part 1-Meat and Dairy Products



SIC Codes: 2011-2099, 2111-2141

#### General Information:

1) Federal and State Storm Water regulations require the City to reduce the quantity of pollutants that enter our storm drains, rivers, and washes from rain water and other sources. 2) Water from any source that contains contaminants is prohibited from entering the storm drain system which includes streets, pipes, catch basins (street grates), ditches, washes, parks, and rivers. 3) Commercial and industrial wash or wastewater is prohibited from entering the storm drain system, street or any other outside area. 4) All washing activities that use soap, solvents, degreasers or any other chemical must be hauled to a landfill or discharged into the sanitary sewer through a sand/oil interceptor or approved pretreatment device. 5) City Code 32C requires any person or business that has a "potential" to pollute storm water, to develop and implement a Storm Water Management Plan (SWMP). 6) The BMPs listed here are not inclusive, and must be tailored for your facility. See 40CFR122 Section 6.U.4 for additional BMPs.

#### Shipping and receiving

- ◆ Ensure that a company representative is present during loading/unloading activities.
- ◆ Inspect the area to detect problems before they occur.
- ◆ Close storm drains during loading/unloading activities in surrounding area.
- ◆ Inspect all containers prior to unloading/loading of any raw or spent materials.
- ◆ Install backflow prevention devices on liquid transfer equipment.
- ◆ Inspect all connection equipment (e.g. hoses and couplings) and replace as needed before performing the loading/unloading activities.
- ◆ Perform all loading/unloading activities indoors or in a covered area.
- ◆ Use drip pans when loading/unloading liquid products.
- ◆ Use rubber seals in truck loading dock areas to contain spills indoors.
- ◆ Situate loading/unloading areas indoors or in a covered area.
- ◆ Drain hoses back into truck, railcar, etc. after loading/unloading materials.
- ◆ Ensure that berms and dikes are built around the unloading/loading areas, if applicable.
- ◆ If outside or in covered areas, minimize run-on of storm water into the unloading/loading areas by grading the areas to insure that storm water runs around the area.
- ◆ Use dry clean-up methods for unloading/loading areas rather than washing the areas down.
- ◆ Train employees on proper unloading/loading techniques.

#### Storage containers - Liquid storage

- ◆ Inspect the external condition (corrosion, leaks) of the containers.
- ◆ Inspect the general area around the containers.
- ◆ Ensure that berms and dikes are built around the containers.
- ◆ Cover and/or enclose.
- ◆ Bulkhead liquid storage tanks indoors (tank outlets inside the building).

#### Storage containers – drums, carboys, and gallon jugs

- ◆ Ensure that all containers are closed (e.g. valves shut, lids and manways sealed, caps closed).
- ◆ Wash containers indoors before storing empty containers outdoors.
- ◆ If outside or in a covered area, minimize run-on of storm water into a storage area by grading area to ensure that storm water runs around and not onto the area.

- ◆ Train employees on proper storage techniques (e.g. filling and transferring contents).
- ◆ Maintain employee training on proper handling and transportation of materials.
- ◆ Maintain an inventory control of all raw and spent materials.
- ◆ Employ measures to protect against spillage from the overflows (e.g. high level sensors, alarms).

#### Storage containers - Solid storage (silos, holding bins, fiber drums, etc.)

- ◆ Consider vacuum emission control systems for airborne dust and particulate matter.

#### Waste Management

##### A. Wastewater treatment

- ◆ Perform wastewater treatment in-house, if possible.
- ◆ Inspect outside pipe connections of treatment system for leaks, corrosion and poor maintenance and repair as needed.

##### B. Solid waste (paper, wood pallets, scrap metals, refuse, etc.)

- ◆ Inspect the general area around solid waste for leaking or leaching.
- ◆ Store waste so that it is physically contained (dumpsters, drums, bags).
- ◆ Store waste in an enclosed or covered area.
- ◆ If outside or in a covered area, minimize exposure to storm water by grading the area to ensure that storm water runs around and not onto the area.
- ◆ Ensure that hazardous waste disposal practices are performed in accordance with Federal, State and local requirements.
- ◆ Route trash compactor leakage to treatment system or sanitary sewer.

##### C. Air emissions

- ◆ Clean around vents and stacks to atmosphere from process and storage areas.
- ◆ Place tubs around vents and stacks for easy collection of settling particles.
- ◆ Inspect air emission control systems regularly and repair and replace as needed.
- ◆ Route overflows/condensates from process vents to on-site treatment system or the sanitary sewer.

## Pest control measures

- ◆ Follow manufacturer's directions for application of pest control materials to site.
- ◆ Time application for dry weather conditions.
- ◆ Store partially full containers indoors or under cover.
- ◆ Apply insecticides during insect breeding months.
- ◆ Protect rat bait houses from storm water.

## Improper connections to storm drains

- ◆ Perform smoke and dye testing to determine if interconnections exist between sanitary sewers and storm drains.
- ◆ Plug all floor drains leading to the storm drain.
- ◆ Update facility schematics to accurately reflect all plumbing connections.

## General BMPs

- ◆ Offer employee incentives so that employees will develop cost effective, worker efficient BMPs.
- ◆ Request outside firm to conduct a storm water inspection/audit.
- ◆ Inspect material transfer lines/connections for leaks or signs of wear and repair or replace as needed.

## Meat Products

### Animal holding pens (beef and chicken)

- ◆ Inspect area around animal holding pens.
- ◆ Enclose/cover fowl hanging area.
- ◆ Enclose/cover the animal holding pens.
- ◆ Grade the areas around the animal holding pens to ensure storm water "runs around" and not onto the holding pen.
- ◆ Train employees on proper material (i.e. hide, hair, feathers, animal parts) clean-up procedures around and within the animal holding pens.
- ◆ Store animal manure and other materials from clean-up activities in appropriate containers in an enclosed/covered area.
- ◆ Area for trailers holding empty bird cages should have storm water run-on/runoff controls in place.
- ◆ Use mechanical sweepers around site to clean up fugitive feathers, dust and manure.

## Dairy Products

### Packaged dairy products (spoiled and broken product containers)

- ◆ Inspect area around aged/spoiled dairy products.
- ◆ Store aged/spoiled dairy products in an enclosed area.
- ◆ Train employees on proper disposal methods for all aged/spoiled dairy products.
- ◆ Ensure that all aged/spoiled products (e.g. bottles, cartons, plastic containers) are disposed of in a proper manner (bagged, covered).

## Training

- ◆ All employees should be trained in the following areas at least once per year in.
  - ◆ Spill response
  - ◆ Good housekeeping
  - ◆ Material management practices
  - ◆ Procedures for equipment and container washing.

## Inspections

- ◆ Conduct routine quarterly storm water inspections and within 24 hours after a rain event.
- ◆ Inspect the following areas at least on a quarterly basis:
  - ◆ Loading and unloading.
  - ◆ Storage.
  - ◆ Waste management units.
  - ◆ Vents and stacks emanating from industrial activities.
  - ◆ Spoiled products and broken product container holding areas.
  - ◆ Animal holding pens.
  - ◆ Staging areas.
  - ◆ Air pollution control systems.
  - ◆ Spill prevention.
  - ◆ Good housekeeping practices.
  - ◆ Management of process waste products.
  - ◆ All structural and non-structural BMPs.
  - ◆ All areas exposed to precipitation will be visually inspected for evidence of or the potential for pollutants entering the storm drain system.
- ◆ Structural BMPs (berms and dikes) will be inspected to ensure they are operating correctly.

## Storm Water Management Plan (SWMP) or Storm Water Pollution Prevention Plan (SWPPP)

- ◆ Develop and implement a SWMP or SWPPP.
- ◆ All Storm Water Plans (SWMP or SWPPP) must be submitted to the city for approval.
- ◆ SIC codes in this class must submit an industrial Notice of Intent (NOI) to ADEQ.

## If spills occur:

- ◆ **Stop the source of the spill immediately.**
- ◆ **Contain the liquid until cleanup is complete.**
- ◆ **Deploy oil containment booms if the spill may reach water or a storm drain.**
- ◆ **Cover the spill with absorbent material.**
- ◆ **Keep the area well ventilated.**
- ◆ **Dispose of clean-up materials properly.**
- ◆ **Do not use an emulsifier or dispersant.**

The BMPs found on this page are paraphrased from Federal Storm Water documents 40CFR122, 1995 or later

## Storm Water



**Management**  
**A member of STORM**  
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## Only Rain in the Storm Drain!

**602-256-3190**  
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**City of Phoenix**

STREET TRANSPORTATION DEPARTMENT  
STORM WATER MANAGEMENT SECTION